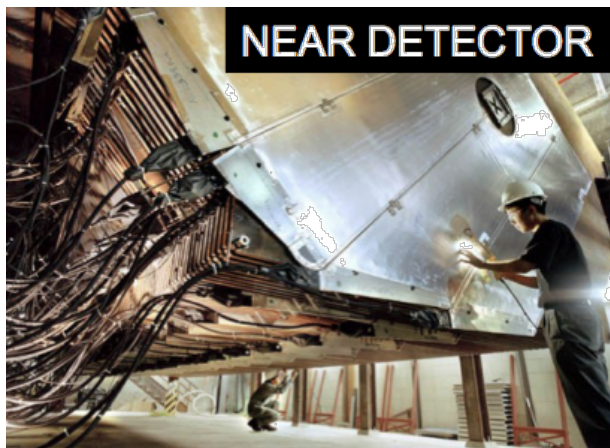# MINOS+ Status Report

Donatella Torretta
All Experimenters' Meetings
May 12, 2014

# Near Detector



**Overall Steady Running**

- Fixed hot channel last week
- No other hardware issues at the present

- Power glitch Wednesday, May 6, ~19:30 (recorded in MCR log)
  - Steve H. successfully turned back on the ND magnet around 20:20 pm

# Far Detector



FAR DETECTOR

**Overall Steady Running**

- Still investigating auxiliary PPS monitor system in Crate 4
    - Noise seem to be originated in the crate itself
    - Primary system in Crate 2 works fine

- Had two flat Charge Injection channels (minor calibration problem) last week:
    - One was fixed replacing the PMT base
    - The other went away on its own

- HV card failing ( drifting voltage value)
    - It will be replaced tomorrow

- Two more UPS units will also be replaced tomorrow

# ND/FD

**During Tuesday/Wednesday May 13/14 beam downtime**

- We'll complete testing that we can run the DAQ removing the BlueArc disk mount from the online systems

- We had serious hanging issues three weeks ago so we need to be severe from it :
  - Previously, we found BlueArc dependencies in the Online Monitoring process and the rotorooter process ( converts data to root format )
  - Last week, SWS un-mounted BlueArc from minos-daq05-nd (hot spare) to be used as a test bench
  - We copied the needed software locally, adjusted the setup scripts and we were able to run the OM without BlueArc
  - We'll test the rotorooter tomorrow

- We'll also check the NTP configuration files in the daq systems:
  - we want **ALL** MINOS underground computers to use only the **daqtpc-nd** (or **daqtpc** at FD) for NTP, and nothing else, in order to get consistent time stamps everywhere (I.e. no CD servers).
  - Note: daqtpc(-nd) are "stratum 1" NTP servers getting time directly from a GPS interface ("stratum 0")

- We'll repeat the Network isolation test on Wednesday

- If all is successful at ND, we'll deploy the same changes at FD

# ND/FD

**CS BlueArc  maintenance work on Thursday, May 15**

- Several NFS volumes will be DOWN  this Thursday from 7:00 am to 1:00 pm for maintenance and transition to new hardware
- During this time MINOS+

    - will continue taking data  but
    - will NOT be able to monitor the Near detector  since the BlueArc /nusoft/app area (where DAQ and DCS status pages reside) will be not accessible
    - FD is not affected by this work

# MINOS+ Status

| Start Date/Time | End Date/Time | Near Detector | | Far Detector | |
|---|---|---|---|---|---|
| | | POT Fraction | Live Time Fraction | POT Fraction | Live Time Fraction |
| 12/30/13 00:00:00 | 01/06/14 00:00:00 | 94.9% | 94.9% | 98.5% | 98.5% |
| 01/06/14 00:00:00 | 01/13/14 00:00:00 | 95.9% | 95.9% | 98.7% | 98.8% |
| 01/13/14 00:00:00 | 01/20/14 00:00:00 | 99.7% | 98.8% | 99.8% | 99.3% |
| 01/20/14 00:00:00 | 01/27/14 00:00:00 | 99.0% | 99.1% | 95.2% | 94.8% |
| 1/27/14 00:00:00 | 2/3/14 00:00:00 | 99.7% | 99.7% | 95.8% | 96.6% |
| 2/3/14 00:00:00 | 2/10/14 00:00:00 | 99.5% | 99.6% | 94.9% | 95.2% |
| 2/10/14 00:00:00 | 2/17/14 00:0:0:00 | 95.7% | 95.7% | 99.9% | 99.0% |
| 2/17/14 00:00:00 | 2/24/14 12:00 AM | 99.7% | 97.2% | 78.0% | 87.0% |
| 2/24/14 00:00:00 | 3/03/14 12:00 AM | 98.5% | 98.5% | 2.09% | 2.13% |
| 3/03/14 00:00:00 | 3/10/14 00:00:00 | 99.8% | 98.0% | 88.0% | 84.2% |
| 3/03/14 00:00:00 | 3/17/14 00:00:00 | 33.6% | 48.5% | 79.8% | 99.1% |
| 3/17/14 00:00:00 | 3/23/14 12:00:00 | 88.6% | 99.4% | 88.4% | 99.3% |
| 3/23/14 00:00:00 | 3/30/14 00:00:00 | 98.9% | 99.3% | 98.3% | 94.1% |
| 3/31/14 00:00:00 | 4/7/14 00:00:00 | 99.6% | 99.5% | 87.6% | 91% |
| 4/7/14 00:00:00 | 4/14/14 00:00:00 | 99.7% | 98.5% | 94.3% | 93.2% |
| 4/21/14 00:00:00 | 4/28/14 00:00:00 | 99.3% | 99.2% | 99.1% | 98.5% |
| 4/28/14 00:00:00 | 5/5/14 00:00:00 | 99.6% | 99.4% | 99.8% | 99.9% |
| 5/5/14 00:00:00 | 5/12/14 00:00:00 | 99.5% | 98.7% | 99.8% | 98.1% |

ND POT fraction and Live Time Fraction

FD POT Fraction and Live Time Fraction